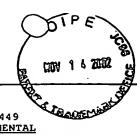
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## FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 0942.4500004/BJD/MTT 09/677,574

APPLICANT Yang et al.

FILING DATE GROUP 1652

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RH	AS	<u>38</u>	Bebenek, K., e Nat. Struct. I	Bebenek, K., et al., "A minor groove binding track in reverse transcriptase," Nat. Struct. Biol. 4:194-197, Nature Publishing Co. (March 1997)				
RH	AT	<u>38</u>	Bebenek, K., a Enzymol. 262:2	Bebenek, K., and Kunkel, T.A., "Analyzing Fidelity of DNA Polymerase," <i>Meth.</i> Enzymol. 262:217-232, Academic Press, Inc. (1995)				
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## FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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RH	AS	<u>39</u>	Bell, J.B., et al., "Base Miscoding and Strand Misalignment Errors by Mutator Klenow pPolymerase with Amino Acid Substitutions at Tyrosine 766 in the O-helix of the Fingers Subdomain," J. Biol. Chem. 272:7345-7351, The American Society for Biochemistry ad Molecular Biology, Inc. (March 1997)					
RH	АТ	<u>39</u>	Brownstein, M.J., et al., "Modulation of Non-Templated Nucleotide Addition by Taq DNA Polymerase: Primer Modifications that Facilitate Genotyping," Biotechniques 20:1004, 1006, 1008-1010, Eaton Publishing Co. (June 1996)					ition by Taq techniques
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Page 4 of 10

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FORM PTO-1449
THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4500004/BJD/MTT 09/677,574

APPLICANT Yang et al.

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RH	AS	<u>40</u>	Clark, J.M., et al., Novel Blunt-end Addition Reactions Catalyzed by DNA Polymerase I of Escherichia coli," J. Mol. Biol. 198:123-127, Academic Press Ltd. (1987)					
RH	AT	40			elity of <i>Pfu</i> DNA polymeres. 24:3546-3551, Oxforo			
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Page 5 of 10



FORM PTO-1449
THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4500004/BJD/MTT

APPLICANT
Yang et al.

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RH	AR	41		2 Å resolutio	tal structure of a bacton," Nature 391:251-258,			
RH	AS	41	Eom, S.H., et site," Nature	Eom, S.H., et al., "Structure of <i>Taq</i> polymerase with DNA at the polymerase active site," <i>Nature 382</i> :278-281, Macmillan Journals Ltd. (July 1996)				
RH	AT	41	Georgiadis, M.M., et al., "Mechanistic implications from the structure of a catalytic fragment of Moloney murine leukemia virus reverse transcriptase,"  Structure 3:879-892, Current Biology Ltd. (1995)					
EXAMINER			/Richard	Hutson/ (07	/05/2006)	DATE CONS	DERED	

Page 6 of 10

FORM PTO-1449
THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4500004/BJD/MTT 09/677,574

APPLICANT Yang et al.

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RH	AR	42		Goodman, M.F., et al., "Biochemical Basis of DNA Replication Fidelity," Crit. Rev. Biochem. Mol. Biol. 28:83-126, CRC Press, Inc. (1993)				
RH	AS	42	Harrison, G.P., et al., "Pausing of reverse transcriptase on retroviral RNA templates is influenced by secondary structures both 5' and 3' of the catalytic site," Nucl. Acids Res. 26:3433-3442, Oxford University Press (July 1998)					
RH	AT	42	Hu, G., "DNA Polymerase-Catalyzed Addition of Nontemplated Extra Nucleotides to the 3' End of a DNA Fragment," DNA Cell Biol. 12:763-770, Mary Ann Liebert, Inc. (1993)					
EXAMINER			/Richard Hu	tson/ (07/0	5/2006)	DATE CONSI	DERED	

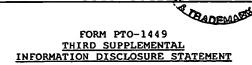
Page 7 of 10

FORM PTO-1449
THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4500004/BJD/MTT	APPLICATION NO. 09/677,574
APPLICANT Yang et al.	
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RH	AR	<u>43</u>	type 1 reverse resolution sho	Jacobo-Molina, A., et al., "Crystal structure of human immunodeficiency virus type 1 reverse transcriptase complexed with double-stranded DNA at 3.0 Å resolution shows bent DNA," Proc. Natl. Acad. Sci. USA 90:6320-6324, National Academy of Sciences of the USA (1993)						
RH	AS	43	Joyce, C.M., a Polymerases,"	Joyce, C.M., and Steitz, T.A., "Function and Structure Relationships in DNA Polymerases," <i>Annu. Rev. Biochem. 63</i> :777-822, Annual Reviews, Inc. (1994)						
RH	AT	<u>43</u>	Kiefer, J.R., et al., "Crystal structure of a thermostable Bacillus DNA polymerase I large fragment at 2.1 Å resolution," Structure 5:95-108, Current Biology Ltd. (January 1997)							
EXAMINER			/Richard	EXAMINER /Richard Hutson/ (07/05/2006) DATE CONSIDERED						

Page 8 of 10



ATTY. DOCKET NO. O942.4500004/BJD/MTT O9/677,574

APPLICANT Yang et al. GROUP October 3, 2000 1652

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RH	AR	44	Kohlstaedt, L.A., et al., "Crystal Structure at 3.5 Å Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," Science 256:1783-1789, American Association for the Advancement of Science (1992)					
RH	AS	44	Kunkel, T.A., "Exonucleolytic Proofreading," Cell 53:837-840, Cell Press (1988)					
RH	AT	44	Leung, D.W., et al., "A Method for Random Mutagenesis of a Defined DNA Segment Using a Modified Polymerase Chain Reaction," <i>Technique 1</i> :11-15, W.B. Saunders Co. (1989)					
EXAMINER			/Richard I	Hutson/ (07,	/05/2006)	DATE CONS	DERED	

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Page 9 of 10

## FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4500004/BJD/MTT	APPLICATION NO. 09/677,574
APPLICANT Yang et al.	
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RH	AR	<u>45</u>	Lundberg, K.S., et al., "High-fidelity amplification using a thermostable DNA polymerase isolated from Pyrococcus furiosus," Gene 108:1-6, Elsevier Science B.V. (1991)							
RH	AS	<u>45</u>	Myers, T.W., and Gelfand, D.H., "Reverse Transcription and DNA Amplification by a <i>Thermus thermophilus</i> DNA Polymerase," <i>Biochem. 30</i> :7661-7666, The American Chemical Society (1991)							
RH	AT	<u>45</u>	Smith, J.R., et al., "Approach to Genotyping Errors Caused by Nontemplated Nucleotide Addition by Taq DNA Polymerase," Genome Res. 5:312-317, Cold Spring Harbor Laboratory Press (1995)							
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FORM PTO-1449								
THIRD SUPPLEMENTAL								
INFORMATION DISCLOSURE STATEMENT								

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RH	AR	<u>46</u>	Yang, SW., et al., "Mutant Thermotoga neapolitana DNA polymerase I: altered						
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